

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

PUBLICATION NUMBER : 59104110  
 PUBLICATION DATE : 15-06-84

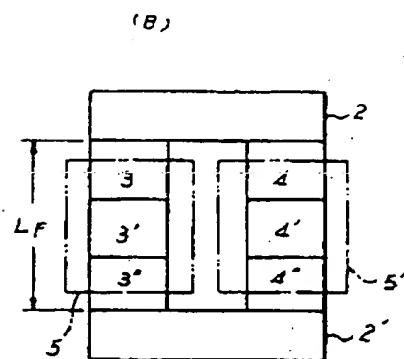
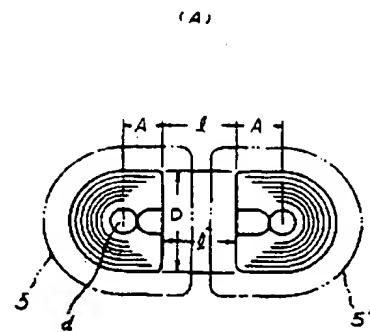
APPLICATION DATE : 07-12-82  
 APPLICATION NUMBER : 57213359

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INT.CL. : H01F 37/00 H01F 27/24

TITLE : BUTT JOINT REACTOR



**ABSTRACT :** PURPOSE: To shorten the average magnetic path length of a butt joint reactor by a method wherein an elliptic core leg is divided into two pieces at the center to form flat horseshoe-shape core legs, and the legs thereof are divided in the axial direction moreover.

**CONSTITUTION:** Loop type laminated cores of two pieces of large and small are pressed from the outsides thereof to be deformed into the elliptic shapes, and then a heat treatment is applied to form elliptic yokes 2, 2' of two groups. Similarly, loop type laminated cores of two pieces of large and small are pressed to be deformed into the elliptic shapes, a heat treatment is applied, and the cores are divided into two parts vertically at the center thereof to form flat horseshoe-shape core legs 3, 3', 3'', 4, 4', 4''. Heat resistingly insulating plates having the prescribed magnetic resistances are inserted in space between the flat horseshoe-shape core legs. The core legs are arranged in series, and the necessary windings 5, 5' are wound around thereon.

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